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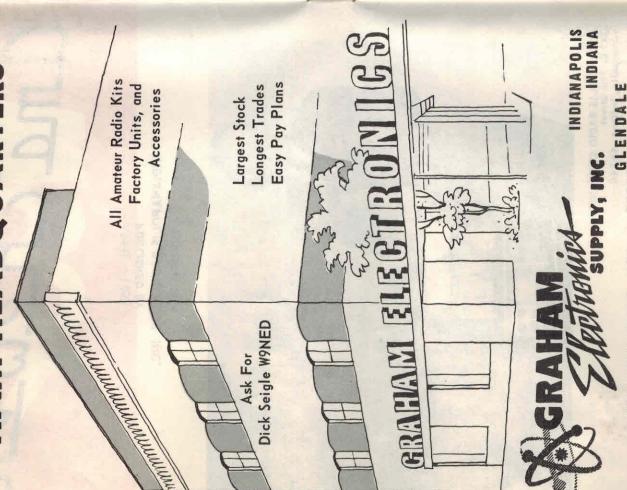
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The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8:00 p. M. EST.

AMA-CHEWER STAFF

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Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

THE PRESIDENT'S FREQUENCY

In last month's "president's frequency" report I started out I have even received some "fan mail" calling my attention to mouth closed and not say anything about the February weather by saying that the month of January had passed and February cially in Florida (where I expect to spend the month of my would be much better, weather-wise. How wrong can one be neck out and say April will really be good weather, espe---or the March weather either. However, I will stick my that statement. This time I'm going to keep my big fat vacation)

a program I journeyed over to the telephone office and picktalked to Ron Williams, W9JVF, and he consented to take the and his program went by the wayside. So that we would have I regret the cancellation of the antenna program which had ed up a film I was sure everyone would like, entitled "Sky program, but at the last minute he had to go to Michigan, afraid he didn't have a good enough program planned so he Watch on 55 Degrees." It was a Mid-Canada Warning Line been scheduled for March 12. Max Galloway, K90XA, was requested to be relieved of the speech at this time.

During the month of April, Dick Kinnett, K9VIE, will handle the meetings, etc., so everything is in the good hands of Juc V P Two future meetings I wish to call to your attention are the for a trip through the power plant. Please be there no later than 7:45 p.m. so that we may get started on time. Also, Following: March 26th there will be no meeting at the clubroom, but there will be a gathering of the group at the Indgive their talk on Micro-wave (which meeting was snowed out) going to impose on Dick, K9VIE, to have an interesting meethas been rescheduled for April 9th at the clubroom. We are anapolis Power and Light Co. plant at 1234 W. Morris St., the meeting originally scheduled for the State Police to ing for you on April 23rd.

Of course the May meetings include Home Brew Night and the Swap and Shop Nights. These I know you won't forget. So until I return from the sunny south, I wish all of you happy hamming -- and don't forget to look for me on the air

waves, calling you all from Florida.

Curly Brouse, K9JSF Your Prez.

altitude of 502 miles, with an inclination of 70 degrees and other call areas. European contact between HB9RG and DL6EZA an orbital period of 103.5 minutes. The translator passband 14,080, 7015 and 14,030 kc. From 0400 to 0700 GMT W6EE will has also been established. W6EE, the Oscar station, transband, followed by RTTY then CW on 3810, 7205, 14,300, 7040, to Project Oscar, Foothills College, Los Altos, California. WIAW will continue to carry latest Oscar information as rebe on 3810 to collect information. Mail reports should go GMT March 9. It is in an essentially circular orbit at an the thirteenth orbit, as well as numerous contacts between confirmed contact between K9AAJ and K2IEJ was reported on mits corrected orbital data at 0000 and 0100 GMT on side-Oscar Three was successfully launched into orbit at 1830 is approximately 10 kc. lower than originally planned. ARRL OFFICIAL BULLETIN NR 996 March 11 1965

(Ama-Chewer editor's note: On page 5 of this issue is additional information on Oscar bulletin frequencies received from Oscar Headquarters before the satellite was launched Some of the times and frequencies differ from those reported by the ARRL in the above bulletin.)

* * *

PUZZLE

R. F. Burns, one of our local home-brew enthusiasts, made trip to one of the radio stores and purchased a length of told his purchase totaled \$1.05, and the photo-cell cost insulating tubing and a cadmium sulphide photo-cell. dollar more than the tubing.

Quick, now, how much did the tubing cost?

Answer appears elsewhere in this issue.



By Jerry Lucas W9APJ PROGRAM REVIEW

Jerry is the weatherman for WFBM-TV, and a member of the Amaska and Texas. You can rest assured he knows his subject, erican Meterological Society, an ex-major in the U. S. Air Force, and has served as weatherman for TV stations in Al-Jerry Zimmerman furnished the program for this meeting. and gave us an enlightening and entertaining talk.

fishermen, factories, amusement parks, and even banks, then went on to tell of the effects the weather has on human be-Jerry began by stressing the importance of the weather to havior. Although we think the world is pretty well covered by weather stations, he said all the existing stations could actualtold of the importance of the Nimbus satellite which relays to earth two billion bits of information each 24 hours, and three to four hours a day keeping up with the advances in ly cover an area about one-half the size of Indiana. He said weather technology is advancing so fast he spends the state of the art

In closing he predicted the last killing frost would occur

on or before April 21, and May 30 would be cool and dry.

It snowed. We all stayed home. The state police program scheduled for this date has been rescheduled for April 9.

OSCAR INFORMATION BULLETINS

Frequencies for the operation of W6EE at Oscar Tracking and Communications Headquarters, Foothill College, Los Altos Hills, Calif., are:

3810, 7205, and 14,300 kc.

3507.5, 7015, and 14,030 kc. 3620, 7040, and 14,080 kc. CM:

RTTY:

Generally, SSB prediction broadcasts will start on the hour, CW at 15 minutes after the hour, and RTTY on the half-hour.

to 0500 GMT daily during Oscar III's life. The station will broadcast orbit predictions and other information regarding Oscar officials hope to have W6EE on the air from 1600 GMT the operation of the amateur radio translator satellite,

STUDY MATERIAL

and amplifiers, transmitters, receivers, oscilloscopes, mic-Looking for some good text books on electronics? An eightvolume set of texts prepared for the Navy Electronics Technician School, Class A, is available from the U. S. Government Printing Office for \$14.25. The books are loose leaf plastic bound and cover basic electricity, power supplies rowave circuits, and electromagnetic circuits and devices. The set is titled 'Fundamentals of Electronics."

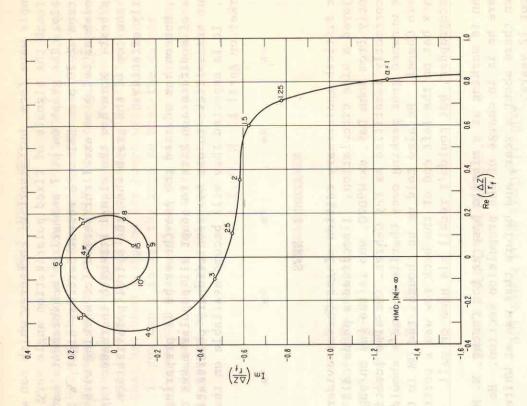
What is your purpose in amateur radio?

NEW POLARIZATION TECHNIQUE

tried by many experimenters, and the Ama-Chewer is fortunate show that the number of stations using the same frequency on ing more and more crowded, with resultant high levels of inthe HF bands is directly proportional to the third power of As we all are painfully aware, the amateur bands are becomto be able to print here a brief description of a new polterference. The use of suitable measuring equipment will the Greenwich Mean Time of operation. New techniques for dealing with this severe interference situation are being arization method worked out by Thomas O. Matson, WAXAF.

much relief to the beleaguered operator. This is mainly due radiation angle and beam azimuth could not be hoped to bring these bands are too large and cumbersome to be moved easily Mr. Matson relates that in studying propagation conditions to the fact that antenna sizes and support structures for beam azimuth, radiation angle, etc., that their situation where the situation seems to be worst, if not more so, he found the normal changes in polarization, antenna height, by the average ham, so most ops must put up with whatever and interference levels, especially on 40 and 80 meters allows. However, it appeared probable to Mr. Matson that a change in appeared to be the best approach. However, with so many dipoles and vertical antennas in use on these bands, there aling on the same frequency at the same time has been shown by little relief from the intense interference and allow a rea 350 over normal propagation paths for a moderate amount of ready are a large number of signals of both horizontal and polarized signal and a vertically-polarized signal appeartime. Changing the polarization of the transmitted signal vertical polarization existing. To ask them to move seems out of the question. Also, the chances of a horizontallyearlier studies to be approximately equivalent, and in any at least one of these parameters might produce at least a sonably skilled operator using medium power to carry on case, greater than the random variation.

izontal and vertical signals. There must be a way of making will not interfere with nor be interfered with by these hora signal "slip through" between the horizontal and vertical finding a method of polarizing a transmitted signal so it The problem then easily resolved itself into a matter of



7372-J hypercom mobilizer transmitter to produce a uniformly mounted antenna rotor, Mr. Matson has succeeded in propagat-By modifying the modulator of his BCvarying phase angle, and feeding a portion of this varying calls this significant breakthrough in amateur technique signal, through a voltage divider, to his horizontallying a signal that fits the requirements aforestated. 'Spiral Polarization." signals, as it were.

As its name indicates, Spiral Polarization is a combination of vertical and horizontal polarization, with the polarizaand back again. Consequently, the radiated signal is not a tion angle continually varying from horizontal to vertical

(cont'd next page)

teur transmitters to use his revolutionary polarization meth-Mr. Matson has advised the Ama-Chewer he is preparing a serod. It is expected they will become available on the retail ies of modification kits to adapt all popular makes of amamarket on April 1.

ALUMNI NEWS

the unnamed gent peeking over Charlie Soltau's shoulder as cently from John Day, ex-W9DVO, who is the guy on page 10 incorrectly identified as Fay Gehres. He also identified Our fiftieth anniversary edition of Ama-Chewer evidently black hat on the left end of the back row was a portrait enjoyed a wide circulation. I received a phone call re-Irvin Chapel. He also told me he thought the OM in the photographer, but couldn't recall his name or call.

been there about a year, and before that was at White Sands John is working at a missile base at Los Cruces, N. Mex., where he is in charge of the propulsion section. He has about 12 years.

For the benefit of those who recall John and would like to write him, his mailing address is RFD 1, Box 848, Los Cruces, N. Mex. 88001.

--Jerry W9APJ

HAM-AD

*

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WHY? WHY?

tones of your own voice, please OM, wire in a time delay relay so you can't turn on your xmtr until a minute after the Why is it some guys will go into their shacks, flip on the rcvr is turned on. Ugh, makes me want to spit on the cat. table that has been going on for hours with this inane remike, "Anyone on the frequency?" They could tell whether occasionally some lid will break into a 12-station roundxmtr, but not the rcvr, apparently, and beller into the anyone is on by listening for a minute. Even on six FM, mark. If you can't resist the urge to hear the dulcet

T, O. M. jg

PUZZLE ANSWER

Let X = cost of tubing Then X + 100= cost of cell And X + X + 100=105 2x + 100 = 105X = 2.52X = 5

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all hams who knew him. But it is a pleasure to know one of The recent death of Harry Smith, W9TT, was a sad event for his most admired projects, the River Forecast Net, is con-

Manager for the net. He is encouraging all with an interest Not only will this continuing operation be a fitting tribute Ed Healy, W9FJR, at this writing is acting as temporary net control for the RFN, pending the appointment of a new Route to the memory of W9TT from his fellow hams, but it will be in CW operation to check into the net so it may continue. recognition of a very worthwhile public service project which should not be allowed to falter.

ditions at their location, river stages when needed, and are EST) each Sunday. Stations checking in report weather con-The net meets on 3656 kc. and begins at 1300 GMT (8 a.m. available to handle other traffic as well. Ed reports the net started back around 1937 during a serious all the police and commercial facilities available, there is have assistance from hams, especially if the hams are ORGAN-Ohio River flood. He will be gald to hear of your interest and to answer any questions or take any suggestions on the operators generally have their hands full and are happy to usefullness of such an amateur operation, saying that with ever, when any emergency occurs, the police and commercial no need for hams to bother with this sort of thing. Howfuture of this net. Some "modern" hams may scoff at the IZED beforehand so they can swing into action right away when needed,

Net sessions and emergency drills may seem boring and childish, but when something big happens, all the advance preparation and practice pays off in increased operator proficien-

spending a lot of time on the nets and deserves your support. ager for QIN, the state CW traffic net, which meets daily at 0000 GMT on 3656 kc. Mike Wetzel, WA9BWY, is the new holder erator has been appointed to fill W9TT's place as Route Man-Incicentally, another enthusiastic Indianapolis traffic opof this position. This is a big job for a young operator, but Mike has been showing his interest in traffic work by

ARRL BULLETINS

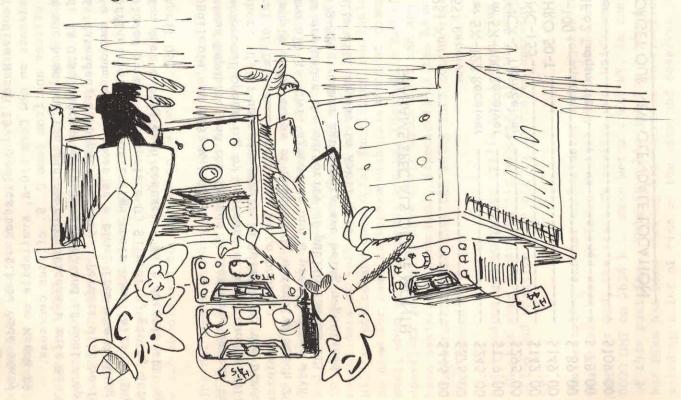
eration is intended, a rough itinerary. Permits will be iston FCC office. Visitors will sign their home calls in English, followed by the appropriate U. S. prefix, giving actual location once during each contact. Full details will apsued for a maximum of one year at a time, from the Washingfurnished. A.U.S. address must be given, and if mobile op-FCC has adopted reciprocal operating rules for foreign amadays in advance on new Form 610-A, availabile on March 29 teurs effective March 29. Application will be made sixty Copies of the home station and operator licenses must be from FCC offices and from some U. S. offices overseas. Feb 25 1965 Official Bulletin Nr 994 pear in April QST.

permit reciprocal operating by amateurs of one country while tor General of Telecommunications, Santo Domingo. Dominican in the other. U. S. amateurs apply in Spanish to the Direcamateurs apply under rules of Subpart G, effective March 29, The Dominican Republic and the United States have agreed to on FCC Form 610-A. This agreement and a previous one with Costa Rica are under the authority of public law 88-313, which was S-920. Other agreements are being negotiated. Full details will appear in April QST. Official Bulletin Nr. 995 Mar 4 1965

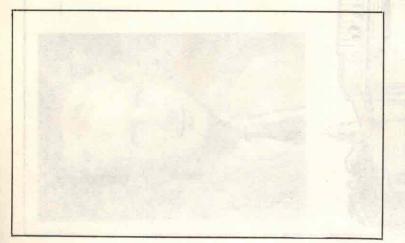
GRAHAMS SPECIALS OF THE MONTH

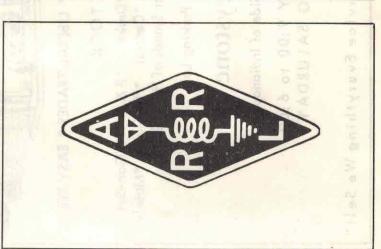
\$445.00	\$245.00	\$179,00	\$295.00	\$142,00	\$149,00	\$ 89,00	\$ 78,00	\$109,00
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Collins 32S1 Xmtr Collins 75S1 Receiver	Hallicrafter SX-122 Receiver	Hallicrafter SX-100 Receiver	National NCX-3 Transceiver	National NC-155	National HRO 50-T	Heath DX-100	Globe VHF 62 Transmitter	
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